

**DEPARTMENT OF TRANSPORTATION****DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-001268**Date Inspected:** 09-Aug-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**Location:** Changxing Dao, Shanghai**Quality Control Contact:** William (Bill) Oak**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coatings Inspection**Bridge No:** 34-0006**Component:** Miscellaneous Metal, ABF Office, Lift 4 East**Bid Item:** 77, 78, 79**Lot No:** B265**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. James Lumley arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

**Miscellaneous Metal**

Base metal surfaces of approximately 893 Pieces of Splice plates, Shim plates and Channel iron were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 applied. Also 284 pieces of Grid Plate Brackets for tower were incorporated into this work and coated with Interzinc 22.

**ABF Office**

Review and sign project documentation for previous nightshift works. Follow up inspection.

**Lift 4East**

Weld seam at OBG 4BE/5AE connection had base metal surfaces abrasive blasted to an SSPC SP-10 condition and Interzinc 22 was applied. Internal surfaces of "T" stiffener areas and Upper corner unit areas were also repaired concurrent with this work process. Profile amplitude was 70-82um.

**OBG 4AW**

Previously coated surfaces of Interfine 979 were abrasive blasted to Base Metal and an SSPC SP-10 condition and feathered and Interzinc 22 re-applied to the external areas of the Upper Corner Unit. Profile amplitude was 70-78um.

**Cross Beam #3**

Repairs were performed to external surfaces consisting of re-application of Interfine 979 "mist" coat application on adjacent areas of assembly connections. Areas which were abrasive blasted on 08/08/2009 were marked by

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## SOURCE INSPECTION REPORT

( Continued Page 2 of 2 )

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ABF QA for no application as Interzinc 22 recoat window had not been achieved.

### Lift 4 East

Weld seam allocated at 4AE/3BE connection were abrasive blasted to base metal and Interzinc 22 re-applied, concurrent with this work the Longitudinal Diaphragms and the floor area "T" stiffeners were also re-blasted and re-application of Interzinc 22 was performed on fabrication damages and heat damaged areas. Profile amplitude was 76-82um.

### Lift 3 West

Repairs were performed to five Traveler Brackets which remained bolted to the segment. Re-abrasive blasting to base metal and an SSPC SP-10 condition was performed and Interzinc 22 re-applied. Profile amplitude was 58-64um.

### Lift 2 West

Repairs were performed to two traveler Brackets which remained bolted to the segment. Re-abrasive blasting to base metal and an SSPC SP-10 condition and re-application of Interzinc 22 was performed.

### Lift 1 West

Repairs were performed to one Traveler Bracket which remained bolted to the segment. Re-abrasive blasting to base metal and an SSPC SP-10 condition and re-application of Interzinc 22 was performed.

### OBG 3AW

Side plate and bottom plate surface of weld seam located at 3AW/2BW connection were abrasive blasted and rejected by ABF QA representative as the work did not comply with SSPC SP-10 requirements.

### Lift 3 East

Observed ZPMC personnel grind previously repaired Interzinc 22 from longitudinal stiffeners of the FL-3 plates on the Cross Beam attachment area.

Note: All inspections were performed jointly with ZPMC & ABF QA/QC representatives and Caltrans QA Lumley. No International Protective Coatings technical service representative present at inspections today.

### Summary of Conversations:

No relevant conversations on this date.

### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang, (858) 699-9549, who represents the Office of Structural Materials for your project.

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<b>Inspected By:</b>	Lumley, James
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Quality Assurance Inspector
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<b>Reviewed By:</b>	Carreon, Albert
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QA Reviewer
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